



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/579,221

08/22/2006

Donald Darkin

4398-537

1297

23117

7590

11/24/2009

NIXON & VANDERHYE, PC  
901 NORTH GLEBE ROAD, 11TH FLOOR  
ARLINGTON, VA 22203

EXAMINER

BLIZZARD, CHRISTOPHER JAMES

ART UNIT

PAPER NUMBER

3771

MAIL DATE

DELIVERY MODE

11/24/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/579,221	<b>Applicant(s)</b> DARKIN ET AL.	
	<b>Examiner</b> CHRISTOPHER BLIZZARD	<b>Art Unit</b> 3771	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 16 October 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) 27 and 28 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-26, 29 and 30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 May 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>10/16/09</u> . | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This office action is in response to amendment filed 7/28/2009. As directed claims 11 and 21 were amended, claims 27-31 were added and no claims were cancelled. Therefore this application currently has claims 1-29 are pending.

#### ***Election/Restrictions***

2. Newly submitted claims 27 and 28 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: they are drawn to a species that includes vent assembly comprising a cylinder and a sleeve to be attached below and elbow, which can be seen in figure 6. The previous elected species is directed to a vent assembly found on the mask or on the elbow as seen in figures 24 or 25a. The claims previously presented claims drawn to the elected species are claims 3 and 8.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 27 and 28 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

#### ***Drawings***

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "nozzle elements", "positioning structure", and "alarm" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing

Art Unit: 3771

sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 4, 15, 16, 25 and 26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not disclose how nozzle elements are part of a mask assembly, the connection between the alarm and the positioning structure, or the connection between the alarm and a higher noise level produced by the vent assembly.

Art Unit: 3771

To any extent the claims are understood and appear to be supported by a clear and complete disclosure, the following appears to be appropriate.

***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1 and 4 as best understood are rejected under 35 U.S.C. 102(b) as being anticipated by Humphries (1,125,542).

8. Regarding claims 1 and 4 Humphries discloses what is inherently a nasal mask assembly in that it covers the nostrils of a patient. Claim 4 recites “the cushion includes nozzle elements” which is assumed to be nozzle element to be inserted into the nostrils. Broadly, the assembly of Humphries is a mask assembly for the nostrils. The Humphries assembly also includes a frame (a, b), a cushion in the form of two nozzle elements (c) to be inserted into the nostrils of a user, and a vent assembly including a first vent (s) and a second vent (u) wherein a clip (o) slides around the frame to select between the two vents (page 2, lines 4-15).

***Claim Rejections - 35 USC § 103***

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 3771

1. Claims 1-3, 5-26 and 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bauman (4,821,713) in view of Gradon (6,662,803).
2. Regarding claims 1 and 17, Bauman discloses a mask assembly for a patient (fig. 1) comprising a vent assembly (fig. 11) including a first vent (127) and a second vent (126) and a selector switch (121) to switch the flow of exhaled gas from the patient between the first and second vents (column 4, lines 62-65). Bauman does not disclose the mask assembly having a frame and a cushion provided to the frame. Gradon teaches a mask assembly with a vent assembly (300) and a frame that is a shell (102) with a cushion (104). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the mask assembly of Bauman with a frame and cushion as taught by Gradon in order to provide the advantage of a more comfortable mask.
3. Regarding claims 2 and 18, the combination of Bauman and Gradon teach the claimed invention wherein Bauman teaches the vents having different flow characteristics (column 5, lines 3-20)
4. Regarding claim 3, the combination of Bauman and Gradon teach the claimed invention wherein Gradon teaches the vents assembly being provided on the shell (fig. 1).
5. Regarding claims 5-7, 19, and 29, the combination of Bauman and Gradon teach the claimed invention wherein Bauman teaches the selector switch that slides around a pivot point as it is rotated to different vent positions (column 5, lines 3-4) and is therefore rotatable, pivotable and slidable.
6. Regarding claims 8 and 9, the combination of Bauman and Gradon teach the claimed invention wherein Bauman teaches the selector being on a dependant arm of an elbow (fig 10).

Art Unit: 3771

7. Regarding claims 10 and 20, the combination of Bauman and Gradon teach the claimed invention wherein Gradon teaches the covering of vents with a material configured to reduce noise (column 5, lines 16-22).

8. Regarding claim 11 and 21, the combination of Bauman and Gradon teach except for the filter material being foam, porous polytetrafluorethylene, or ceramic. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the filter material be foam, porous polytetrafluorethylene, or ceramic, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

9. Regarding claims 12-14 and 22-24, the combination of Bauman and Gradon teach the claimed invention wherein Bauman teaches the selector having positioning structure in the form of detents (121b, 122) to hold the switch in a place correspond to the multiple vents (column 4, lines 62-68) and allows exhaled gas to be vented even if the vent assembly is not in the first or second position (fig 11).

10. Regarding claims 15, 16, 25 and 26 the combination of Bauman and Gradon teach the claimed invention wherein Gradon teaches an alarm in the form of a higher noise level produced by the vent assembly (column 5, lines 14-21), therefore it would have been obvious to provide the third vent (125) a Bauman with an alarm as taught by Gradon in order to provide the advantage of notify the user if the device isn't working properly.

Art Unit: 3771

11. Regarding claim 30, the combination of Bauman and Gradon teach the claimed invention wherein Bauman teaches the first vent including two holes (127, 123) and the second vent including two hole (126, 123).

12. Regarding claim 31, the combination of Bauman and Gradon teach the claimed invention Gradon teaches the vent assembly extending from the inner surface of the frame to the out surface of the frame (fig. 7).

### ***Response to Arguments***

10. Applicant's arguments with respect to claims 1-26 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER BLIZZARD whose telephone number is (571)270-7138. The examiner can normally be reached on Monday thru Friday, 9:00AM - 5:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine Yu can be reached on (571)2724835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



Art Unit: 3771

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/CHRISTOPHER BLIZZARD/  
Examiner, Art Unit 3771

/Danton DeMille/  
Primary Examiner, Art Unit 3771